

APPENDIX: RHODE ISLAND CANCER RATES, 1998-2002 PROVISIONAL DETAILED TABLES of CANCER INCIDENCE RATES

Introduction

The Rhode Island Cancer Registry maintains up-to-date cancer statistics for the State, including incidence rates, prevalence estimates, and mortality rates. The statistics are computed for the State as a whole and for counties. These latest **provisional incidence statistics** for the years **1998-2002**, were prepared in February, 2004.

Sources of Data

Age-adjusted incidence rates by sex and by race are computed from:

- case reports of newly diagnosed cancers made to the Rhode Island Cancer Registry
- counts of the Rhode Island population in the censuses of 1980, 1990, and 2000

Methods

Incidence rates and corresponding standard errors are calculated using SEERStat, software produced for public use by the Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute. The algorithms for rates, as described in SEERStat documentation, are as follows:

Crude Rate

A crude rate is the number of cases per 100,000 in a given population.

$$cruderate = \frac{count}{population} \times 100,000$$

Age-adjusted Rate

An age-adjusted rate is a weighted average of crude rates, where the crude rates are calculated for different age groups and the weights are the proportions of persons in the corresponding age groups of a standard population. Several sets of standard populations are included in SEER*Stat. These include the total U.S. populations (1940, 1950, 1960, 1970, 1980, and 1990), an estimate of the U.S. 2000 population, 1991 Canadian population, and the world population. The age-adjusted rate for an age group comprised of the ages x through y is calculated using the following formula:

$$aarate_{x-y} = \sum_{i=x}^y \left[\left(\frac{count_i}{pop_i} \right) \times 100,000 \times \left(\frac{stdmi_i}{\sum_{j=x}^y stdmi_j} \right) \right]$$

where count is the number of cases for the ith age group, pop_i is the relevant population for the same age group, and stdmi_i is the standard population for the same age group.

Standard Error for a Crude Rate

This calculation assumes that the cancer counts have Poisson distributions.

$$SE_{crude} = \frac{\sqrt{count}}{population} \times 100,000$$

Standard Error for an Age-adjusted Rate

This calculation assumes that the cancer counts have Poisson distributions. Suppose that the age-adjusted rate is comprised of age groups x through y.

$$SE_{AARate} = \left[\sum_{i=x}^y \left(\frac{stdm\bar{l}_i}{\sum_{j=x}^y stdm\bar{l}_j} \right)^2 \times \left(\frac{count_i}{population_i^2} \right) \right]^{\frac{1}{2}} \times 100,000$$

Crude Rate Confidence Intervals

The endpoints of a p x 100% confidence interval are calculated as:

$$CI_{low} = \frac{\left(\frac{1}{2} \left(ChiInv \left(\frac{p}{2}, 2 \times count \right) \right) \right)}{population} \times 100,000$$
$$CI_{high} = \frac{\left(\frac{1}{2} \left(ChiInv \left(1 - \frac{p}{2}, 2 \times (count + 1) \right) \right) \right)}{population} \times 100,000$$

where Chi Inv(p,n) is the inverse of the chi-squared distribution function evaluated at p and with n degrees of freedom, and we define Chi Inv (p,0) = 0.

Although the normal approximation may be used with the standard errors to obtain confidence intervals when the count is large, we use the above exact method that holds even with small counts (see Johnson and Kotz, 1969, or Fay and Feuer, 1997). When the count is large the 2 methods produce similar results.

Age-adjusted Rate Confidence Intervals

Suppose that the age-adjusted rate is comprised of age groups x through y, and let:

$$w_i = \frac{stdm\bar{l}_i}{\left(pop_i \times \sum_{j=x}^y stdm\bar{l}_j \right)}$$

$$w_m = \max(w_i)$$

$$v = \sum_{i=x}^y (w_i^2 \times count_i)$$

The endpoints of a p x 100% confidence interval are calculated as:

$$CI_{low} = \left(\frac{v}{2 \times rate} \right) \times \left(ChiInv \left(\frac{p}{2}, \frac{(2 \times rate^2)}{v} \right) \right) \times 100,000$$

$$CI_{high} = \left(\frac{v + w_m^2}{2(rate + w_m)} \right) \times \left(ChiInv \left(1 - \frac{p}{2}, \frac{2(rate + w_m)^2}{(v + w_m^2)} \right) \right) \times 100,000$$

This method for calculating the confidence interval was developed in Fay and Feuer (1997). The method produces similar confidence limits to the standard normal approximation when the counts are large and the population being studied is similar to the standard population. In other cases, the above method is more likely to ensure proper coverage.

Note

“Rate” used in the above formulas is not per 100,000 population.

Source

SEERStat Version 5.1.14, January 14, 2004.

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Table 1 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 2000 Standard)
Rhode Island, 1998-2002, All Races, by Sex and Anatomical Site

| SITES | Males (All Races) | | | Females (All Races) | | |
|-----------------------------------|-------------------|-------------|-----------|---------------------|-------------|-----------|
| | <u>Count</u> | <u>Rate</u> | <u>SE</u> | <u>Count</u> | <u>Rate</u> | <u>SE</u> |
| All Sites | 15,119 | 628.9 | 5.1 | 14,315 | 444.5 | 3.8 |
| Oral Cavity and Pharynx | 367 | 15.0 | 0.8 | 188 | 5.9 | 0.4 |
| Lip | 28 | 1.3 | 0.2 | 17 | 0.5 | 0.1 |
| Tongue | 103 | 4.2 | 0.4 | 54 | 1.8 | 0.2 |
| Salivary Gland | 29 | 1.2 | 0.2 | 33 | 1.0 | 0.2 |
| Floor of Mouth | 29 | 1.2 | 0.2 | 17 | 0.5 | 0.1 |
| Gum and Other Mouth | 46 | 1.9 | 0.3 | 27 | 0.8 | 0.2 |
| Nasopharynx | 19 | 0.8 | 0.2 | 5 | 0.2 | 0.1 |
| Oropharynx | 23 | 0.9 | 0.2 | 10 | 0.4 | 0.1 |
| Hypopharynx | 45 | 1.9 | 0.3 | 11 | 0.4 | 0.1 |
| Digestive System | 3010 | 126.4 | 2.3 | 2935 | 83.5 | 1.6 |
| Esophagus | 236 | 9.8 | 0.6 | 78 | 2.2 | 0.3 |
| Stomach | 317 | 13.4 | 0.8 | 239 | 6.5 | 0.4 |
| Small Intestine | 55 | 2.3 | 0.3 | 59 | 1.8 | 0.2 |
| Colon and Rectum | 1789 | 75.3 | 1.8 | 1858 | 52.6 | 1.3 |
| Colon excluding Rectum | 1237 | 52.4 | 1.5 | 1413 | 39.8 | 1.1 |
| Rectum and Rectosigmoid Junction | 552 | 22.9 | 1.0 | 445 | 12.8 | 0.6 |
| Anus, Anal Canal and Anorectum | 29 | 1.2 | 0.2 | 52 | 1.6 | 0.2 |
| Liver | 160 | 6.5 | 0.5 | 67 | 2.0 | 0.2 |
| Intrahepatic Bile Duct | 28 | 1.2 | 0.2 | 26 | 0.8 | 0.2 |
| Gallbladder | 26 | 1.2 | 0.2 | 50 | 1.5 | 0.2 |
| Pancreas | 296 | 12.5 | 0.7 | 373 | 10.5 | 0.6 |
| Respiratory System | 2701 | 112.0 | 2.2 | 2063 | 63.7 | 1.4 |
| Larynx | 201 | 8.4 | 0.6 | 57 | 1.7 | 0.2 |
| Lung and Bronchus | 2417 | 100.1 | 2.0 | 1972 | 60.9 | 1.4 |
| Bones and Joints | 17 | 0.7 | 0.2 | 14 | 0.5 | 0.1 |
| Soft Tissue including Heart | 106 | 4.4 | 0.4 | 79 | 2.7 | 0.3 |
| Skin excluding Basal and Squamous | 734 | 30.4 | 1.1 | 520 | 17.1 | 0.8 |
| Melanoma of the Skin | 660 | 27.3 | 1.1 | 462 | 15.3 | 0.7 |
| Breast | 27 | 1.2 | 0.2 | 4054 | 130.6 | 2.1 |
| Female Genital System | 0 | 0.0 | ~ | 1570 | 51.1 | 1.3 |
| Cervix Uteri | 0 | 0.0 | ~ | 206 | 7.3 | 0.5 |
| Corpus and Uterus, NOS | 0 | 0.0 | ~ | 807 | 26.0 | 0.9 |
| Ovary | 0 | 0.0 | ~ | 406 | 13.2 | 0.7 |
| Male Genital System | 4441 | 183.8 | 2.8 | 0 | 0.0 | ~ |
| Prostate | 4263 | 176.8 | 2.7 | 0 | 0.0 | ~ |
| Testis | 148 | 5.8 | 0.5 | 0 | 0.0 | ~ |
| Penis | 23 | 0.9 | 0.2 | 0 | 0.0 | ~ |
| Urinary System | 1794 | 75.1 | 1.8 | 830 | 25.1 | 0.9 |
| Urinary Bladder | 1249 | 52.7 | 1.5 | 482 | 14.3 | 0.7 |
| Kidney and Renal Pelvis | 508 | 20.8 | 0.9 | 328 | 10.3 | 0.6 |
| Ureter | 22 | 0.9 | 0.2 | 16 | 0.4 | 0.1 |
| Eye and Orbit | 18 | 0.7 | 0.2 | 19 | 0.7 | 0.2 |
| Brain and Other Nervous System | 193 | 7.8 | 0.6 | 176 | 5.8 | 0.4 |
| Brain | 186 | 7.5 | 0.6 | 163 | 5.3 | 0.4 |
| Endocrine System | 126 | 5.0 | 0.4 | 385 | 13.8 | 0.7 |
| Thyroid | 113 | 4.5 | 0.4 | 367 | 13.2 | 0.7 |
| Lymphoma | 650 | 26.7 | 1.1 | 633 | 19.5 | 0.8 |
| Hodgkin Lymphoma | 89 | 3.5 | 0.4 | 76 | 2.7 | 0.3 |
| Non-Hodgkin Lymphoma | 561 | 23.2 | 1.0 | 557 | 16.8 | 0.7 |
| Myeloma | 152 | 6.5 | 0.5 | 157 | 4.6 | 0.4 |
| Leukemia | 393 | 16.4 | 0.8 | 298 | 9.2 | 0.5 |
| Acute Lymphocytic Leukemia | 53 | 2.2 | 0.3 | 35 | 1.4 | 0.2 |
| Chronic Lymphocytic Leukemia | 120 | 5.0 | 0.5 | 81 | 2.3 | 0.3 |
| Acute Myeloid Leukemia | 123 | 5.1 | 0.5 | 96 | 3.0 | 0.3 |
| Acute Monocytic Leukemia | 6 | 0.2 | 0.1 | 3 | 0.1 | 0.1 |
| Chronic Myeloid Leukemia | 48 | 2.0 | 0.3 | 43 | 1.3 | 0.2 |
| Miscellaneous | 390 | 16.7 | 0.9 | 394 | 10.9 | 0.6 |

~ Statistic could not be calculated.

Table 2 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 2000 Standard)
Rhode Island, 1998-2002, Whites, by Sex and Anatomical Site

| SITES | Males (Whites) | | | Females (Whites) | | |
|-----------------------------------|----------------|-------------|-----------|------------------|-------------|-----------|
| | <u>Count</u> | <u>Rate</u> | <u>SE</u> | <u>Count</u> | <u>Rate</u> | <u>SE</u> |
| All Sites | 14613 | 652.9 | 5.4 | 13866 | 467.1 | 4.1 |
| Oral Cavity and Pharynx | 354 | 15.7 | 0.8 | 177 | 6.1 | 0.5 |
| Lip | 28 | 1.3 | 0.3 | 17 | 0.6 | 0.1 |
| Tongue | 102 | 4.5 | 0.4 | 51 | 1.8 | 0.3 |
| Salivary Gland | 27 | 1.2 | 0.2 | 32 | 1.0 | 0.2 |
| Floor of Mouth | 25 | 1.1 | 0.2 | 15 | 0.5 | 0.1 |
| Gum and Other Mouth | 44 | 2.0 | 0.3 | 27 | 0.9 | 0.2 |
| Nasopharynx | 18 | 0.8 | 0.2 | 5 | 0.2 | 0.1 |
| Oropharynx | 23 | 1.0 | 0.2 | 9 | 0.4 | 0.1 |
| Hypopharynx | 43 | 1.9 | 0.3 | 9 | 0.3 | 0.1 |
| Digestive System | 2906 | 130.5 | 2.4 | 2845 | 86.2 | 1.7 |
| Esophagus | 230 | 10.3 | 0.7 | 75 | 2.3 | 0.3 |
| Stomach | 301 | 13.6 | 0.8 | 224 | 6.5 | 0.5 |
| Small Intestine | 52 | 2.3 | 0.3 | 58 | 1.9 | 0.3 |
| Colon and Rectum | 1746 | 78.5 | 1.9 | 1809 | 54.6 | 1.3 |
| Colon excluding Rectum | 1206 | 54.4 | 1.6 | 1380 | 41.4 | 1.1 |
| Rectum and Rectosigmoid Junction | 540 | 24.0 | 1.0 | 429 | 13.2 | 0.7 |
| Anus, Anal Canal and Anorectum | 28 | 1.3 | 0.2 | 51 | 1.7 | 0.2 |
| Liver | 147 | 6.5 | 0.5 | 64 | 2.0 | 0.3 |
| Intrahepatic Bile Duct | 26 | 1.1 | 0.2 | 26 | 0.8 | 0.2 |
| Gallbladder | 23 | 1.1 | 0.2 | 48 | 1.6 | 0.2 |
| Pancreas | 286 | 12.9 | 0.8 | 359 | 10.7 | 0.6 |
| Respiratory System | 2608 | 115.6 | 2.3 | 1995 | 66.2 | 1.5 |
| Larynx | 187 | 8.4 | 0.6 | 54 | 1.7 | 0.2 |
| Lung and Bronchus | 2339 | 103.5 | 2.1 | 1908 | 63.4 | 1.5 |
| Bones and Joints | 15 | 0.7 | 0.2 | 12 | 0.5 | 0.1 |
| Soft Tissue including Heart | 104 | 4.8 | 0.5 | 74 | 2.8 | 0.3 |
| Skin excluding Basal and Squamous | 724 | 32.5 | 1.2 | 515 | 18.7 | 0.8 |
| Melanoma of the Skin | 656 | 29.4 | 1.2 | 458 | 16.8 | 0.8 |
| Breast | 24 | 1.1 | 0.2 | 3922 | 137.4 | 2.2 |
| Female Genital System | 0 | 0.0 | ~ | 1527 | 54.3 | 1.4 |
| Cervix Uteri | 0 | 0.0 | ~ | 196 | 7.9 | 0.6 |
| Corpus and Uterus, NOS | 0 | 0.0 | ~ | 790 | 27.7 | 1.0 |
| Ovary | 0 | 0.0 | ~ | 392 | 13.9 | 0.7 |
| Male Genital System | 4277 | 189.7 | 2.9 | 0 | 0.0 | ~ |
| Prostate | 4106 | 181.9 | 2.8 | 0 | 0.0 | ~ |
| Testis | 144 | 6.6 | 0.6 | 0 | 0.0 | ~ |
| Penis | 21 | 0.9 | 0.2 | 0 | 0.0 | ~ |
| Urinary System | 1755 | 78.5 | 1.9 | 811 | 26.4 | 1.0 |
| Urinary Bladder | 1227 | 55.2 | 1.6 | 477 | 15.2 | 0.7 |
| Kidney and Renal Pelvis | 492 | 21.7 | 1.0 | 314 | 10.7 | 0.6 |
| Ureter | 21 | 1.0 | 0.2 | 16 | 0.4 | 0.1 |
| Eye and Orbit | 17 | 0.7 | 0.2 | 19 | 0.7 | 0.2 |
| Brain and Other Nervous System | 190 | 8.5 | 0.6 | 172 | 6.3 | 0.5 |
| Brain | 183 | 8.2 | 0.6 | 159 | 5.8 | 0.5 |
| Endocrine System | 120 | 5.4 | 0.5 | 359 | 14.7 | 0.8 |
| Thyroid | 108 | 4.8 | 0.5 | 342 | 14.1 | 0.8 |
| Lymphoma | 615 | 27.7 | 1.1 | 616 | 20.8 | 0.9 |
| Hodgkin Lymphoma | 84 | 3.9 | 0.4 | 71 | 2.9 | 0.4 |
| Non-Hodgkin Lymphoma | 531 | 23.8 | 1.0 | 545 | 17.8 | 0.8 |
| Myeloma | 145 | 6.6 | 0.6 | 148 | 4.7 | 0.4 |
| Leukemia | 383 | 17.6 | 0.9 | 291 | 10.0 | 0.6 |
| Acute Lymphocytic Leukemia | 51 | 2.6 | 0.4 | 33 | 1.6 | 0.3 |
| Chronic Lymphocytic Leukemia | 118 | 5.3 | 0.5 | 81 | 2.4 | 0.3 |
| Acute Myeloid Leukemia | 119 | 5.4 | 0.5 | 91 | 3.1 | 0.3 |
| Acute Monocytic Leukemia | 6 | 0.3 | 0.1 | 3 | 0.1 | 0.1 |
| Chronic Myeloid Leukemia | 47 | 2.1 | 0.3 | 43 | 1.4 | 0.2 |
| Miscellaneous | 376 | 17.2 | 0.9 | 383 | 11.2 | 0.6 |

~ Statistic could not be calculated.

Table 3 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 2000 Standard)
Rhode Island, 1998-2002, Blacks, by Sex and Anatomical Site

| SITES | Males (Blacks) | | | Females (Blacks) | | |
|-----------------------------------|----------------|-------------|-----------|------------------|-------------|-----------|
| | <u>Count</u> | <u>Rate</u> | <u>SE</u> | <u>Count</u> | <u>Rate</u> | <u>SE</u> |
| All Sites | 385 | 662.6 | 38.0 | 322 | 417.0 | 24.1 |
| Oral Cavity and Pharynx | 10 | 13.0 | 4.2 | 7 | 9.4 | 3.7 |
| Lip | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Tongue | 1 | 1.2 | 1.2 | 2 | 2.2 | 1.6 |
| Salivary Gland | 0 | 0.0 | ~ | 1 | 2.1 | 2.1 |
| Floor of Mouth | 4 | 5.3 | 2.7 | 0 | 0.0 | ~ |
| Gum and Other Mouth | 2 | 2.8 | 2.1 | 0 | 0.0 | ~ |
| Nasopharynx | 1 | 1.0 | 1.0 | 0 | 0.0 | ~ |
| Oropharynx | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Hypopharynx | 1 | 1.2 | 1.2 | 2 | 2.4 | 1.7 |
| Digestive System | 64 | 120.7 | 16.9 | 67 | 95.6 | 12.0 |
| Esophagus | 5 | 6.9 | 3.2 | 3 | 4.2 | 2.5 |
| Stomach | 9 | 15.3 | 5.2 | 14 | 18.9 | 5.2 |
| Small Intestine | 2 | 5.4 | 3.9 | 1 | 1.2 | 1.2 |
| Colon and Rectum | 26 | 53.9 | 11.8 | 35 | 51.2 | 8.9 |
| Colon excluding Rectum | 19 | 40.0 | 10.5 | 26 | 36.4 | 7.3 |
| Rectum and Rectosigmoid Junction | 7 | 13.8 | 5.4 | 9 | 14.8 | 5.1 |
| Anus, Anal Canal and Anorectum | 1 | 0.8 | 0.8 | 0 | 0.0 | ~ |
| Liver | 5 | 8.0 | 3.6 | 0 | 0.0 | ~ |
| Intrahepatic Bile Duct | 1 | 1.9 | 1.9 | 0 | 0.0 | ~ |
| Gallbladder | 2 | 9.3 | 6.9 | 1 | 1.2 | 1.2 |
| Pancreas | 9 | 13.1 | 4.4 | 12 | 17.0 | 5.1 |
| Respiratory System | 77 | 138.3 | 17.6 | 61 | 82.0 | 10.7 |
| Larynx | 11 | 19.0 | 6.2 | 3 | 4.1 | 2.3 |
| Lung and Bronchus | 66 | 119.3 | 16.5 | 57 | 76.6 | 10.4 |
| Bones and Joints | 1 | 0.9 | 0.9 | 1 | 0.8 | 0.8 |
| Soft Tissue including Heart | 1 | 1.2 | 1.2 | 3 | 2.8 | 1.7 |
| Skin excluding Basal and Squamous | 6 | 4.9 | 2.0 | 2 | 2.4 | 1.7 |
| Melanoma of the Skin | 0 | 0.0 | ~ | 1 | 1.2 | 1.2 |
| Breast | 3 | 5.6 | 3.2 | 92 | 115.7 | 12.4 |
| Female Genital System | 0 | 0.0 | ~ | 28 | 34.4 | 6.8 |
| Cervix Uteri | 0 | 0.0 | ~ | 5 | 4.8 | 2.2 |
| Corpus and Uterus, NOS | 0 | 0.0 | ~ | 14 | 19.2 | 5.2 |
| Ovary | 0 | 0.0 | ~ | 7 | 7.9 | 3.1 |
| Male Genital System | 144 | 259.8 | 24.1 | 0 | 0.0 | ~ |
| Prostate | 139 | 252.5 | 23.7 | 0 | 0.0 | ~ |
| Testis | 2 | 1.3 | 0.9 | 0 | 0.0 | ~ |
| Penis | 2 | 5.0 | 3.7 | 0 | 0.0 | ~ |
| Urinary System | 27 | 40.9 | 8.5 | 15 | 19.1 | 5.1 |
| Urinary Bladder | 13 | 21.7 | 6.7 | 5 | 7.6 | 3.5 |
| Kidney and Renal Pelvis | 14 | 19.2 | 5.3 | 10 | 11.5 | 3.7 |
| Ureter | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Eye and Orbit | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Brain and Other Nervous System | 3 | 2.5 | 1.4 | 3 | 4.5 | 2.7 |
| Brain | 3 | 2.5 | 1.4 | 3 | 4.5 | 2.7 |
| Endocrine System | 3 | 2.5 | 1.4 | 15 | 14.4 | 3.8 |
| Thyroid | 3 | 2.5 | 1.4 | 14 | 13.2 | 3.6 |
| Lymphoma | 23 | 27.9 | 6.2 | 10 | 10.5 | 3.5 |
| Hodgkin Lymphoma | 4 | 3.1 | 1.6 | 4 | 3.6 | 1.8 |
| Non-Hodgkin Lymphoma | 19 | 24.8 | 6.0 | 6 | 6.9 | 3.0 |
| Myeloma | 5 | 9.7 | 4.6 | 7 | 10.9 | 4.2 |
| Leukemia | 7 | 9.4 | 3.8 | 3 | 3.4 | 2.3 |
| Acute Lymphocytic Leukemia | 1 | 1.9 | 1.9 | 1 | 0.7 | 0.7 |
| Chronic Lymphocytic Leukemia | 1 | 1.0 | 1.0 | 0 | 0.0 | ~ |
| Acute Myeloid Leukemia | 4 | 4.7 | 2.6 | 2 | 2.7 | 2.2 |
| Acute Monocytic Leukemia | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Chronic Myeloid Leukemia | 1 | 1.9 | 1.9 | 0 | 0.0 | ~ |
| Miscellaneous | 11 | 25.4 | 8.9 | 8 | 11.3 | 4.1 |

~ Statistic could not be calculated.

Table 4 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 1970 Standard)
Rhode Island, 1998-2002, All Races, by Sex and Anatomical Site

| SITES | Males (All Races) | | | Females (All Races) | | |
|-----------------------------------|-------------------|-------------|-----------|---------------------|-------------|-----------|
| | <u>Count</u> | <u>Rate</u> | <u>SE</u> | <u>Count</u> | <u>Rate</u> | <u>SE</u> |
| All Sites | 15,119 | 521.7 | 4.3 | 14,315 | 373.0 | 3.4 |
| Oral Cavity and Pharynx | 367 | 12.9 | 0.7 | 188 | 5.0 | 0.4 |
| Lip | 28 | 0.9 | 0.2 | 17 | 0.4 | 0.1 |
| Tongue | 103 | 3.6 | 0.4 | 54 | 1.5 | 0.2 |
| Salivary Gland | 29 | 1.0 | 0.2 | 33 | 0.7 | 0.1 |
| Floor of Mouth | 29 | 1.0 | 0.2 | 17 | 0.4 | 0.1 |
| Gum and Other Mouth | 46 | 1.6 | 0.2 | 27 | 0.7 | 0.1 |
| Nasopharynx | 19 | 0.7 | 0.2 | 5 | 0.1 | 0.1 |
| Oropharynx | 23 | 0.8 | 0.2 | 10 | 0.3 | 0.1 |
| Hypopharynx | 45 | 1.6 | 0.2 | 11 | 0.3 | 0.1 |
| Digestive System | 3010 | 101.3 | 1.9 | 2935 | 66.1 | 1.3 |
| Esophagus | 236 | 8.4 | 0.6 | 78 | 1.8 | 0.2 |
| Stomach | 317 | 10.3 | 0.6 | 239 | 5.0 | 0.4 |
| Small Intestine | 55 | 1.8 | 0.3 | 59 | 1.5 | 0.2 |
| Colon and Rectum | 1789 | 59.9 | 1.4 | 1858 | 41.5 | 1.1 |
| Colon excluding Rectum | 1237 | 41.1 | 1.2 | 1413 | 31.4 | 0.9 |
| Rectum and Rectosigmoid Junction | 552 | 18.8 | 0.8 | 445 | 10.2 | 0.5 |
| Anus, Anal Canal and Anorectum | 29 | 1.0 | 0.2 | 52 | 1.4 | 0.2 |
| Liver | 160 | 5.5 | 0.4 | 67 | 1.6 | 0.2 |
| Intrahepatic Bile Duct | 28 | 0.9 | 0.2 | 26 | 0.6 | 0.1 |
| Gallbladder | 26 | 0.8 | 0.2 | 50 | 1.3 | 0.2 |
| Pancreas | 296 | 10.2 | 0.6 | 373 | 8.3 | 0.5 |
| Respiratory System | 2701 | 93.6 | 1.8 | 2063 | 54.7 | 1.3 |
| Larynx | 201 | 7.2 | 0.5 | 57 | 1.4 | 0.2 |
| Lung and Bronchus | 2417 | 83.6 | 1.7 | 1972 | 52.3 | 1.3 |
| Bones and Joints | 17 | 0.7 | 0.2 | 14 | 0.5 | 0.1 |
| Soft Tissue including Heart | 106 | 3.6 | 0.4 | 79 | 2.4 | 0.3 |
| Skin excluding Basal and Squamous | 734 | 25.1 | 0.9 | 520 | 14.4 | 0.7 |
| Melanoma of the Skin | 660 | 22.6 | 0.9 | 462 | 12.9 | 0.6 |
| Breast | 27 | 0.9 | 0.2 | 4054 | 110.4 | 1.8 |
| Female Genital System | 0 | 0.0 | ~ | 1570 | 44.2 | 1.2 |
| Cervix Uteri | 0 | 0.0 | ~ | 206 | 6.1 | 0.4 |
| Corpus and Uterus, NOS | 0 | 0.0 | ~ | 807 | 22.8 | 0.8 |
| Ovary | 0 | 0.0 | ~ | 406 | 11.5 | 0.6 |
| Male Genital System | 4441 | 157.0 | 2.4 | 0 | 0.0 | ~ |
| Prostate | 4263 | 151.1 | 2.4 | 0 | 0.0 | ~ |
| Testis | 148 | 5.0 | 0.4 | 0 | 0.0 | ~ |
| Penis | 23 | 0.7 | 0.2 | 0 | 0.0 | ~ |
| Urinary System | 1794 | 60.7 | 1.5 | 830 | 21.0 | 0.8 |
| Urinary Bladder | 1249 | 41.9 | 1.2 | 482 | 11.8 | 0.6 |
| Kidney and Renal Pelvis | 508 | 17.5 | 0.8 | 328 | 8.9 | 0.5 |
| Ureter | 22 | 0.8 | 0.2 | 16 | 0.3 | 0.1 |
| Eye and Orbit | 18 | 0.6 | 0.1 | 19 | 0.6 | 0.1 |
| Brain and Other Nervous System | 193 | 6.6 | 0.5 | 176 | 5.2 | 0.4 |
| Brain | 186 | 6.3 | 0.5 | 163 | 4.8 | 0.4 |
| Endocrine System | 126 | 4.4 | 0.4 | 385 | 12.0 | 0.6 |
| Thyroid | 113 | 3.9 | 0.4 | 367 | 11.4 | 0.6 |
| Lymphoma | 650 | 22.3 | 0.9 | 633 | 16.5 | 0.7 |
| Hodgkin Lymphoma | 89 | 3.2 | 0.4 | 76 | 2.6 | 0.3 |
| Non-Hodgkin Lymphoma | 561 | 19.1 | 0.8 | 557 | 13.8 | 0.6 |
| Myeloma | 152 | 5.0 | 0.4 | 157 | 3.7 | 0.3 |
| Leukemia | 393 | 14.0 | 0.7 | 298 | 8.1 | 0.5 |
| Acute Lymphocytic Leukemia | 53 | 2.4 | 0.3 | 35 | 1.7 | 0.3 |
| Chronic Lymphocytic Leukemia | 120 | 4.2 | 0.4 | 81 | 1.8 | 0.2 |
| Acute Myeloid Leukemia | 123 | 4.2 | 0.4 | 96 | 2.5 | 0.3 |
| Acute Monocytic Leukemia | 6 | 0.2 | 0.1 | 3 | 0.1 | 0.1 |
| Chronic Myeloid Leukemia | 48 | 1.6 | 0.2 | 43 | 1.0 | 0.2 |
| Miscellaneous | 390 | 12.9 | 0.7 | 394 | 8.4 | 0.5 |

~ Statistic could not be calculated.

Table 5 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 1970 Standard)
Rhode Island, 1998-2002, Whites, by Sex and Anatomical Site

| SITES | Males (Whites) | | | Females (Whites) | | |
|-----------------------------------|----------------|-------------|-----------|------------------|-------------|-----------|
| | <u>Count</u> | <u>Rate</u> | <u>SE</u> | <u>Count</u> | <u>Rate</u> | <u>SE</u> |
| All Sites | 14,613 | 542.9 | 4.6 | 13,866 | 393.2 | 3.6 |
| Oral Cavity and Pharynx | 354 | 13.4 | 0.7 | 177 | 5.1 | 0.4 |
| Lip | 28 | 0.9 | 0.2 | 17 | 0.4 | 0.1 |
| Tongue | 102 | 3.9 | 0.4 | 51 | 1.6 | 0.2 |
| Salivary Gland | 27 | 1.0 | 0.2 | 32 | 0.8 | 0.2 |
| Floor of Mouth | 25 | 0.9 | 0.2 | 15 | 0.4 | 0.1 |
| Gum and Other Mouth | 44 | 1.6 | 0.2 | 27 | 0.8 | 0.2 |
| Nasopharynx | 18 | 0.7 | 0.2 | 5 | 0.1 | 0.1 |
| Oropharynx | 23 | 0.9 | 0.2 | 9 | 0.3 | 0.1 |
| Hypopharynx | 43 | 1.7 | 0.3 | 9 | 0.3 | 0.1 |
| Digestive System | 2906 | 104.7 | 2.0 | 2845 | 68.6 | 1.4 |
| Esophagus | 230 | 8.8 | 0.6 | 75 | 1.9 | 0.2 |
| Stomach | 301 | 10.4 | 0.6 | 224 | 5.0 | 0.4 |
| Small Intestine | 52 | 1.9 | 0.3 | 58 | 1.6 | 0.2 |
| Colon and Rectum | 1746 | 62.6 | 1.5 | 1809 | 43.3 | 1.1 |
| Colon excluding Rectum | 1206 | 42.8 | 1.3 | 1380 | 32.7 | 1.0 |
| Rectum and Rectosigmoid Junction | 540 | 19.8 | 0.9 | 429 | 10.5 | 0.6 |
| Anus, Anal Canal and Anorectum | 28 | 1.0 | 0.2 | 51 | 1.4 | 0.2 |
| Liver | 147 | 5.4 | 0.5 | 64 | 1.7 | 0.2 |
| Intrahepatic Bile Duct | 26 | 0.9 | 0.2 | 26 | 0.7 | 0.1 |
| Gallbladder | 23 | 0.8 | 0.2 | 48 | 1.3 | 0.2 |
| Pancreas | 286 | 10.5 | 0.6 | 359 | 8.4 | 0.5 |
| Respiratory System | 2608 | 96.9 | 1.9 | 1995 | 57.0 | 1.4 |
| Larynx | 187 | 7.2 | 0.5 | 54 | 1.4 | 0.2 |
| Lung and Bronchus | 2339 | 86.7 | 1.8 | 1908 | 54.6 | 1.3 |
| Bones and Joints | 15 | 0.7 | 0.2 | 12 | 0.5 | 0.1 |
| Soft Tissue including Heart | 104 | 3.9 | 0.4 | 74 | 2.5 | 0.3 |
| Skin excluding Basal and Squamous | 724 | 27.0 | 1.0 | 515 | 15.8 | 0.7 |
| Melanoma of the Skin | 656 | 24.5 | 1.0 | 458 | 14.2 | 0.7 |
| Breast | 24 | 0.9 | 0.2 | 3922 | 116.2 | 2.0 |
| Female Genital System | 0 | 0.0 | ~ | 1527 | 47.0 | 1.3 |
| Cervix Uteri | 0 | 0.0 | ~ | 196 | 6.6 | 0.5 |
| Corpus and Uterus, NOS | 0 | 0.0 | ~ | 790 | 24.3 | 0.9 |
| Ovary | 0 | 0.0 | ~ | 392 | 12.1 | 0.7 |
| Male Genital System | 4277 | 162.3 | 2.5 | 0 | 0.0 | ~ |
| Prostate | 4106 | 155.6 | 2.5 | 0 | 0.0 | ~ |
| Testis | 144 | 5.7 | 0.5 | 0 | 0.0 | ~ |
| Penis | 21 | 0.7 | 0.2 | 0 | 0.0 | ~ |
| Urinary System | 1755 | 63.6 | 1.6 | 811 | 22.2 | 0.8 |
| Urinary Bladder | 1227 | 44.0 | 1.3 | 477 | 12.6 | 0.6 |
| Kidney and Renal Pelvis | 492 | 18.3 | 0.8 | 314 | 9.2 | 0.6 |
| Ureter | 21 | 0.8 | 0.2 | 16 | 0.3 | 0.1 |
| Eye and Orbit | 17 | 0.6 | 0.2 | 19 | 0.7 | 0.2 |
| Brain and Other Nervous System | 190 | 7.3 | 0.5 | 172 | 5.8 | 0.5 |
| Brain | 183 | 7.0 | 0.5 | 159 | 5.2 | 0.5 |
| Endocrine System | 120 | 4.8 | 0.5 | 359 | 12.8 | 0.7 |
| Thyroid | 108 | 4.2 | 0.4 | 342 | 12.1 | 0.7 |
| Lymphoma | 615 | 23.2 | 1.0 | 616 | 17.6 | 0.8 |
| Hodgkin Lymphoma | 84 | 3.5 | 0.4 | 71 | 2.9 | 0.4 |
| Non-Hodgkin Lymphoma | 531 | 19.6 | 0.9 | 545 | 14.7 | 0.7 |
| Myeloma | 145 | 5.1 | 0.4 | 148 | 3.8 | 0.3 |
| Leukemia | 383 | 15.2 | 0.8 | 291 | 8.9 | 0.6 |
| Acute Lymphocytic Leukemia | 51 | 3.0 | 0.4 | 33 | 2.0 | 0.4 |
| Chronic Lymphocytic Leukemia | 118 | 4.4 | 0.4 | 81 | 1.9 | 0.2 |
| Acute Myeloid Leukemia | 119 | 4.5 | 0.4 | 91 | 2.6 | 0.3 |
| Acute Monocytic Leukemia | 6 | 0.2 | 0.1 | 3 | 0.1 | 0.1 |
| Chronic Myeloid Leukemia | 47 | 1.8 | 0.3 | 43 | 1.2 | 0.2 |
| Miscellaneous | 376 | 13.3 | 0.7 | 383 | 8.7 | 0.5 |

~ Statistic could not be calculated.

Table 6 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 1970 Standard)
Rhode Island, 1998-2002, Blacks, by Sex and Anatomical Site

| SITES | Males (Blacks) | | | Females (Blacks) | | |
|-----------------------------------|----------------|-------------|-----------|------------------|-------------|-----------|
| | <u>Count</u> | <u>Rate</u> | <u>SE</u> | <u>Count</u> | <u>Rate</u> | <u>SE</u> |
| All Sites | 385 | 551.7 | 29.5 | 322 | 344.8 | 19.7 |
| Oral Cavity and Pharynx | 10 | 11.8 | 3.9 | 7 | 7.2 | 2.7 |
| Lip | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Tongue | 1 | 1.1 | 1.1 | 2 | 2.2 | 1.6 |
| Salivary Gland | 0 | 0.0 | ~ | 1 | 1.0 | 1.0 |
| Floor of Mouth | 4 | 5.1 | 2.7 | 0 | 0.0 | ~ |
| Gum and Other Mouth | 2 | 2.2 | 1.7 | 0 | 0.0 | ~ |
| Nasopharynx | 1 | 0.8 | 0.8 | 0 | 0.0 | ~ |
| Oropharynx | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Hypopharynx | 1 | 1.1 | 1.1 | 2 | 2.0 | 1.4 |
| Digestive System | 64 | 97.6 | 12.7 | 67 | 72.3 | 9.0 |
| Esophagus | 5 | 6.4 | 3.0 | 3 | 3.4 | 2.0 |
| Stomach | 9 | 13.3 | 4.5 | 14 | 14.7 | 4.0 |
| Small Intestine | 2 | 3.6 | 2.5 | 1 | 1.2 | 1.2 |
| Colon and Rectum | 26 | 41.3 | 8.4 | 35 | 37.7 | 6.5 |
| Colon excluding Rectum | 19 | 29.8 | 7.1 | 26 | 27.6 | 5.5 |
| Rectum and Rectosigmoid Junction | 7 | 11.5 | 4.4 | 9 | 10.0 | 3.4 |
| Anus, Anal Canal and Anorectum | 1 | 0.6 | 0.6 | 0 | 0.0 | ~ |
| Liver | 5 | 8.0 | 3.6 | 0 | 0.0 | ~ |
| Intrahepatic Bile Duct | 1 | 1.6 | 1.6 | 0 | 0.0 | ~ |
| Gallbladder | 2 | 4.9 | 3.5 | 1 | 1.2 | 1.2 |
| Pancreas | 9 | 12.7 | 4.4 | 12 | 12.9 | 3.8 |
| Respiratory System | 77 | 113.4 | 13.4 | 61 | 70.6 | 9.1 |
| Larynx | 11 | 16.4 | 5.1 | 3 | 3.7 | 2.2 |
| Lung and Bronchus | 66 | 97.0 | 12.4 | 57 | 65.7 | 8.8 |
| Bones and Joints | 1 | 0.6 | 0.6 | 1 | 0.6 | 0.6 |
| Soft Tissue including Heart | 1 | 1.1 | 1.1 | 3 | 2.7 | 1.6 |
| Skin excluding Basal and Squamous | 6 | 4.1 | 1.7 | 2 | 2.5 | 1.8 |
| Melanoma of the Skin | 0 | 0.0 | ~ | 1 | 1.2 | 1.2 |
| Breast | 3 | 4.7 | 2.7 | 92 | 97.1 | 10.4 |
| Female Genital System | 0 | 0.0 | ~ | 28 | 30.0 | 5.8 |
| Cervix Uteri | 0 | 0.0 | ~ | 5 | 3.8 | 1.8 |
| Corpus and Uterus, NOS | 0 | 0.0 | ~ | 14 | 16.4 | 4.4 |
| Ovary | 0 | 0.0 | ~ | 7 | 7.7 | 3.0 |
| Male Genital System | 144 | 220.0 | 18.9 | 0 | 0.0 | ~ |
| Prostate | 139 | 214.2 | 18.7 | 0 | 0.0 | ~ |
| Testis | 2 | 1.6 | 1.1 | 0 | 0.0 | ~ |
| Penis | 2 | 3.6 | 2.5 | 0 | 0.0 | ~ |
| Urinary System | 27 | 34.8 | 7.1 | 15 | 16.3 | 4.3 |
| Urinary Bladder | 13 | 17.3 | 5.1 | 5 | 5.7 | 2.5 |
| Kidney and Renal Pelvis | 14 | 17.5 | 4.9 | 10 | 10.6 | 3.5 |
| Ureter | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Eye and Orbit | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Brain and Other Nervous System | 3 | 2.2 | 1.3 | 3 | 3.6 | 2.1 |
| Brain | 3 | 2.2 | 1.3 | 3 | 3.6 | 2.1 |
| Endocrine System | 3 | 1.9 | 1.1 | 15 | 13.0 | 3.5 |
| Thyroid | 3 | 1.9 | 1.1 | 14 | 11.7 | 3.2 |
| Lymphoma | 23 | 24.7 | 5.5 | 10 | 9.5 | 3.1 |
| Hodgkin Lymphoma | 4 | 2.9 | 1.5 | 4 | 3.6 | 1.9 |
| Non-Hodgkin Lymphoma | 19 | 21.7 | 5.3 | 6 | 5.9 | 2.5 |
| Myeloma | 5 | 8.0 | 3.7 | 7 | 7.9 | 3.0 |
| Leukemia | 7 | 7.5 | 3.1 | 3 | 2.6 | 1.5 |
| Acute Lymphocytic Leukemia | 1 | 1.6 | 1.6 | 1 | 0.9 | 0.9 |
| Chronic Lymphocytic Leukemia | 1 | 0.8 | 0.8 | 0 | 0.0 | ~ |
| Acute Myeloid Leukemia | 4 | 3.6 | 2.0 | 2 | 1.7 | 1.2 |
| Acute Monocytic Leukemia | 0 | 0.0 | ~ | 0 | 0.0 | ~ |
| Chronic Myeloid Leukemia | 1 | 1.6 | 1.6 | 0 | 0.0 | ~ |
| Miscellaneous | 11 | 19.0 | 6.0 | 8 | 8.9 | 3.2 |

~ Statistic could not be calculated.

**Table 7 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 2000 Standard)
Rhode Island Counties, 1998-2002, All Races, by Sex and Selected Anatomical Site**

| COUNTIES / SITES | Males (All Races) | | | Females (All Races) | | |
|-------------------------|-------------------|-------------|-----------|---------------------|-------------|-----------|
| | <u>Count</u> | <u>Rate</u> | <u>SE</u> | <u>Count</u> | <u>Rate</u> | <u>SE</u> |
| <u>All Counties</u> | | | | | | |
| All Sites | 15,119 | 628.9 | 5.1 | 14,315 | 444.5 | 3.8 |
| Oral Cavity and Pharynx | 367 | 15.0 | 0.8 | 188 | 5.9 | 0.4 |
| Colon and Rectum | 1,789 | 75.3 | 1.8 | 1,858 | 52.6 | 1.3 |
| Lung and Bronchus | 2,417 | 100.1 | 2.0 | 1,972 | 60.9 | 1.4 |
| Melanoma of the Skin | 660 | 27.3 | 1.1 | 462 | 15.3 | 0.7 |
| Breast | 27 | 1.2 | 0.2 | 4,054 | 130.6 | 2.1 |
| Cervix Uteri | 0 | 0.0 | ~ | 206 | 7.3 | 0.5 |
| Ovary | 0 | 0.0 | ~ | 406 | 13.2 | 0.7 |
| Prostate | 4,263 | 176.8 | 2.7 | 0 | 0.0 | ~ |
| <u>Bristol</u> | | | | | | |
| All Sites | 842 | 629.5 | 21.9 | 726 | 428.6 | 16.3 |
| Oral Cavity and Pharynx | 20 | 15.2 | 3.4 | 11 | 7.3 | 2.2 |
| Colon and Rectum | 92 | 70.0 | 7.4 | 87 | 44.8 | 4.9 |
| Lung and Bronchus | 123 | 91.6 | 8.3 | 80 | 44.8 | 5.1 |
| Melanoma of the Skin | 45 | 34.8 | 5.2 | 23 | 14.1 | 3.0 |
| Breast | 3 | 2.1 | 1.2 | 219 | 138.5 | 9.5 |
| Cervix Uteri | 0 | 0.0 | ~ | 5 | 3.6 | 1.7 |
| Ovary | 0 | 0.0 | ~ | 22 | 13.2 | 2.9 |
| Prostate | 237 | 175.5 | 11.5 | 0 | 0.0 | ~ |
| <u>Kent</u> | | | | | | |
| All Sites | 2,695 | 664.5 | 13.0 | 2,522 | 469.9 | 9.5 |
| Oral Cavity and Pharynx | 68 | 16.9 | 2.1 | 32 | 6.0 | 1.1 |
| Colon and Rectum | 341 | 85.2 | 4.7 | 318 | 54.8 | 3.1 |
| Lung and Bronchus | 459 | 111.4 | 5.2 | 367 | 66.8 | 3.5 |
| Melanoma of the Skin | 109 | 26.4 | 2.6 | 82 | 16.2 | 1.8 |
| Breast | 2 | 0.5 | 0.4 | 748 | 143.0 | 5.3 |
| Cervix Uteri | 0 | 0.0 | ~ | 38 | 8.1 | 1.3 |
| Ovary | 0 | 0.0 | ~ | 69 | 13.2 | 1.6 |
| Prostate | 736 | 180.8 | 6.7 | 0 | 0.0 | ~ |
| <u>Newport</u> | | | | | | |
| All Sites | 1,273 | 610.5 | 17.3 | 1,232 | 468.5 | 13.5 |
| Oral Cavity and Pharynx | 41 | 18.9 | 3.0 | 23 | 8.9 | 1.9 |
| Colon and Rectum | 158 | 77.9 | 6.3 | 154 | 55.0 | 4.5 |
| Lung and Bronchus | 156 | 74.6 | 6.0 | 184 | 69.5 | 5.2 |
| Melanoma of the Skin | 60 | 27.9 | 3.6 | 47 | 18.5 | 2.7 |
| Breast | 3 | 1.3 | 0.7 | 356 | 138.4 | 7.4 |
| Cervix Uteri | 0 | 0.0 | ~ | 18 | 7.4 | 1.8 |
| Ovary | 0 | 0.0 | ~ | 37 | 14.6 | 2.4 |
| Prostate | 432 | 203.9 | 9.9 | 0 | 0.0 | ~ |
| <u>Providence</u> | | | | | | |
| All Sites | 8,465 | 615.3 | 6.7 | 8,280 | 435.5 | 4.9 |
| Oral Cavity and Pharynx | 187 | 13.5 | 1.0 | 103 | 5.4 | 0.5 |
| Colon and Rectum | 995 | 72.9 | 2.3 | 1,103 | 51.9 | 1.6 |
| Lung and Bronchus | 1,434 | 104.1 | 2.8 | 1,122 | 59.2 | 1.8 |
| Melanoma of the Skin | 339 | 24.5 | 1.3 | 234 | 13.5 | 0.9 |
| Breast | 18 | 1.4 | 0.3 | 2,238 | 122.8 | 2.7 |
| Cervix Uteri | 0 | 0.0 | ~ | 127 | 7.8 | 0.7 |
| Ovary | 0 | 0.0 | ~ | 234 | 13.2 | 0.9 |
| Prostate | 2,246 | 163.7 | 3.5 | 0 | 0.0 | ~ |
| <u>Washington</u> | | | | | | |
| All Sites | 1,844 | 658.4 | 15.5 | 1,555 | 443.2 | 11.3 |
| Oral Cavity and Pharynx | 51 | 17.5 | 2.5 | 19 | 5.5 | 1.3 |
| Colon and Rectum | 203 | 74.7 | 5.3 | 196 | 54.0 | 3.9 |
| Lung and Bronchus | 245 | 86.7 | 5.6 | 219 | 63.1 | 4.3 |
| Melanoma of the Skin | 107 | 37.6 | 3.7 | 76 | 21.9 | 2.5 |
| Breast | 1 | 0.3 | 0.3 | 493 | 141.7 | 6.4 |
| Cervix Uteri | 0 | 0.0 | ~ | 18 | 5.6 | 1.3 |
| Ovary | 0 | 0.0 | ~ | 44 | 12.7 | 1.9 |
| Prostate | 612 | 217.1 | 8.9 | 0 | 0.0 | ~ |

~ Statistic could not be calculated.

**Table 8 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 1970 Standard)
Rhode Island Counties, 1998-2002, All Races, by Sex and Selected Anatomical Site**

| COUNTIES / SITES | Males (All Races) | | | Females (All Races) | | |
|-------------------------|-------------------|-------------|-----------|---------------------|-------------|-----------|
| | <u>Count</u> | <u>Rate</u> | <u>SE</u> | <u>Count</u> | <u>Rate</u> | <u>SE</u> |
| <u>All Counties</u> | | | | | | |
| All Sites | 15,119 | 521.7 | 4.3 | 14,315 | 373.0 | 3.4 |
| Oral Cavity and Pharynx | 367 | 12.9 | 0.7 | 188 | 5.0 | 0.4 |
| Colon and Rectum | 1,789 | 59.9 | 1.4 | 1,858 | 41.5 | 1.1 |
| Lung and Bronchus | 2,417 | 83.6 | 1.7 | 1,972 | 52.3 | 1.3 |
| Melanoma of the Skin | 660 | 22.6 | 0.9 | 462 | 12.9 | 0.6 |
| Breast | 27 | 0.9 | 0.2 | 4,054 | 110.4 | 1.8 |
| Cervix Uteri | 0 | 0.0 | ~ | 206 | 6.1 | 0.4 |
| Ovary | 0 | 0.0 | ~ | 406 | 11.5 | 0.6 |
| Prostate | 4,263 | 151.1 | 2.4 | 0 | 0.0 | ~ |
| <u>Bristol</u> | | | | | | |
| All Sites | 842 | 521.0 | 18.5 | 726 | 356.2 | 14.3 |
| Oral Cavity and Pharynx | 20 | 13.3 | 3.0 | 11 | 6.7 | 2.1 |
| Colon and Rectum | 92 | 54.1 | 5.8 | 87 | 33.3 | 3.9 |
| Lung and Bronchus | 123 | 74.1 | 6.9 | 80 | 37.6 | 4.5 |
| Melanoma of the Skin | 45 | 29.5 | 4.5 | 23 | 11.7 | 2.6 |
| Breast | 3 | 1.8 | 1.0 | 219 | 117.6 | 8.4 |
| Cervix Uteri | 0 | 0.0 | ~ | 5 | 2.6 | 1.2 |
| Ovary | 0 | 0.0 | ~ | 22 | 11.6 | 2.7 |
| Prostate | 237 | 151.6 | 10.1 | 0 | 0.0 | ~ |
| <u>Kent</u> | | | | | | |
| All Sites | 2,695 | 549.5 | 10.8 | 2,522 | 395.9 | 8.4 |
| Oral Cavity and Pharynx | 68 | 14.2 | 1.8 | 32 | 5.0 | 0.9 |
| Colon and Rectum | 341 | 68.4 | 3.8 | 318 | 43.3 | 2.6 |
| Lung and Bronchus | 459 | 93.4 | 4.4 | 367 | 57.1 | 3.2 |
| Melanoma of the Skin | 109 | 22.4 | 2.2 | 82 | 13.3 | 1.5 |
| Breast | 2 | 0.4 | 0.3 | 748 | 122.1 | 4.7 |
| Cervix Uteri | 0 | 0.0 | ~ | 38 | 7.0 | 1.2 |
| Ovary | 0 | 0.0 | ~ | 69 | 11.2 | 1.4 |
| Prostate | 736 | 153.0 | 5.7 | 0 | 0.0 | ~ |
| <u>Newport</u> | | | | | | |
| All Sites | 1,273 | 511.9 | 14.5 | 1,232 | 397.3 | 12.0 |
| Oral Cavity and Pharynx | 41 | 16.0 | 2.5 | 23 | 7.5 | 1.6 |
| Colon and Rectum | 158 | 61.7 | 5.0 | 154 | 44.1 | 3.8 |
| Lung and Bronchus | 156 | 63.1 | 5.1 | 184 | 60.8 | 4.7 |
| Melanoma of the Skin | 60 | 23.8 | 3.1 | 47 | 15.6 | 2.4 |
| Breast | 3 | 1.3 | 0.7 | 356 | 118.9 | 6.5 |
| Cervix Uteri | 0 | 0.0 | ~ | 18 | 6.3 | 1.5 |
| Ovary | 0 | 0.0 | ~ | 37 | 13.0 | 2.3 |
| Prostate | 432 | 177.8 | 8.6 | 0 | 0.0 | ~ |
| <u>Providence</u> | | | | | | |
| All Sites | 8,465 | 509.7 | 5.7 | 8,280 | 364.5 | 4.4 |
| Oral Cavity and Pharynx | 187 | 11.8 | 0.9 | 103 | 4.5 | 0.5 |
| Colon and Rectum | 995 | 58.1 | 1.9 | 1,103 | 41.0 | 1.4 |
| Lung and Bronchus | 1,434 | 86.8 | 2.3 | 1,122 | 50.8 | 1.6 |
| Melanoma of the Skin | 339 | 19.9 | 1.1 | 234 | 11.4 | 0.8 |
| Breast | 18 | 1.0 | 0.3 | 2,238 | 103.1 | 2.3 |
| Cervix Uteri | 0 | 0.0 | ~ | 127 | 6.4 | 0.6 |
| Ovary | 0 | 0.0 | ~ | 234 | 11.4 | 0.8 |
| Prostate | 2,246 | 139.3 | 3.0 | 0 | 0.0 | ~ |
| <u>Washington</u> | | | | | | |
| All Sites | 1,844 | 548.4 | 12.9 | 1,555 | 372.4 | 9.9 |
| Oral Cavity and Pharynx | 51 | 13.9 | 2.0 | 19 | 4.6 | 1.1 |
| Colon and Rectum | 203 | 59.0 | 4.2 | 196 | 42.8 | 3.2 |
| Lung and Bronchus | 245 | 73.8 | 4.8 | 219 | 54.6 | 3.8 |
| Melanoma of the Skin | 107 | 31.9 | 3.1 | 76 | 18.7 | 2.2 |
| Breast | 1 | 0.4 | 0.4 | 493 | 119.4 | 5.6 |
| Cervix Uteri | 0 | 0.0 | ~ | 18 | 5.0 | 1.2 |
| Ovary | 0 | 0.0 | ~ | 44 | 11.5 | 1.8 |
| Prostate | 612 | 186.0 | 7.6 | 0 | 0.0 | ~ |

~ Statistic could not be calculated.